**Solving SOE By Graphing on the TI-84 Plus**  Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Solve the system of equations using the TI-84 Plus graphing calculator. *The equations are already written in slope-intercept form.*



Step 1– Enter the equations. *Press the y= button. Enter the equations into y1= and y2=.*

*Note: The X button is next to the ALPHA (green) button, which says X, T, , n.*

*Note: Be sure you use the negative button (next to ENTER) instead of the minus button.*

Step 2 – Graph the equations. *Press GRAPH.*

Step 3 – Find the point of intersection. *Press CALC (2nd TRACE), 5: intersect, ENTER, ENTER, ENTER.*

Step 4 – Record the solution, which is at the bottom of the screen. Write it as an ordered pair. \_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Solve the system of equations using the TI-84 Plus graphing calculator. *Rewrite the equations into slope-intercept form first.*



Step 1 – Rewrite the equations in slope-intercept form.

 becomes y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  becomes y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Step 2 – Enter the equations into y1= and y2=. *You’ll first need to clear out the previous equations.*

Step 3– Graph the equations.

Step 4 – Find the point of intersection.

Step 5 – Record the solution. \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**In problems 3 – 10,** solve the system of equations using the TI-84 Plus graphing calculator. First rewrite the equations into slope-intercept form. *Show your work on a separate sheet of paper.*

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

   

**5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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